



Sap & Kaps Petroleum Services I.L.C

30" Clamp Clock Spring Contour Composite Wrapping Composite Repair Case Study



5 mm pin hole on 30" SS line



30" Leak Sealing clamp



C S Contour composite

30" Clamp Clock Spring Contour composite wrapping Repair

01

(Fig. I) .30" SS pipeline has pin hole at weld joint

02

(Fig. II) Leak sealing clamp was installed on the pipe to arrest the leak however due to pipe geometry and weld configuration, the leak was not sealed properly and seepage was observed on both side of the clamp.

03

(Fig. III) Clock Spring Contour wet composite wrapping was the innovated repair solution to se- cure the leak and encapsulating it within the wrapping structure.

The application has been completed by using fast curing putty & Clock Spring Contour wet wrapping technology, the wrapping was extended 0.7 m on both side of the clamp to reinforce the defect terminals and to contain the existing leak.

Design Criteria

Operating Temperature	:	94 deg C
Operating Pressure	:	9.8 bar
Defect type	:	Pinhole
Size	:	30"
Material	:	S S
Defect Analysis	:	5mm through wall defect
Orientation of Leak	:	5 O' Clock
Lifetime	:	2 Years

Location: Abu Dhabi, U.A.E.

For more information on this repair or any similar repairs, please contact us :

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